

ALUMINIUM ALLOY AA2030 AND AA2007 (D60) CONFORMING TO ELV(2000/53/EC)



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Alloys AA2030 and 2007 are developed specifically for machining applications, conform to ELV and renowned for good machining characteristics and mechanical properties. Lead content less than 1% and no other prohibited elements. AA2030 and 2007 alloys are direct replacement for 2030 and 2007 -classic, retains all the technological properties of the original alloys. Both alloys have been developed for use in automotive industries.

Chemical Composition AA2030 and AA2007 conforming to ELV:

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Each	Total	Other	Additional
AA2030	max. 0,80	max. 0,70	3,3 4,5	0,20 1,0	0,50 1,0	max 0,10	max. 0,50	max. 0,20	0,80 1,0	max. 0,05	max. 0,15	Bi max.0,2	
AA2007	max. 0,80	max. 0,80	3,3 4,6	0,50 1,0	0,40 1,8	max 0,10	max. 0,80	max. 0,20	0,80 1,0	max. 0,05	max. 0,15	Bi max.0,2 Ni max. ,20 Sn max. ,20	

Mechanical Properties AA2030 and AA2007 conforming to ELV:

Cold Drawn									
Temper	Dimension		Rm min.		Rp0.2 min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
T3, T351	7 to 30	0.275 to 1.181	370	54	240	35	7	7	100
T3, T351	30 to 76.20	1.181 to 3	340	50	220	32	6	6	90
Extruded									
Temper	Dimension		Rm min.		Rp0.2 min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
T4, T4510, T4511	20 to 80	0.788 to 3,149	370	54	250	36	8	8	100
T4, T4510, T4511	80 to 180	3,149 to 7.087	340	50	220	32	8	8	90

Comparative Characteristics AA2030 and AA2007 conforming to ELV:

Temper	Corrosion resistance		Cold workability	Anodizing Response	Brazeability	Weldability	
	General	Stress				Gas	Arc
T3	D	C	B	B	D	D	B
T351	D	B	B	B	D	D	C
T4, T4510, T4511	D	C	B	B	D	D	B

Rating: A=Excellent, B=Good, C=Fair, D=Poor

Physical Properties AA2030 and AA2007 conforming to ELV:

Density (g/cm ³)	2,82
Modulus of elasticity (MPa)	73640
Thermal conductivity (W/m K)	130-160
Coefficient of thermal expansion (20-100°) 10 ⁻⁶ /K	23,0
Electrical resistivity (MS/m)	18-22 (31%-40% IACS)

